IN THE CLAIMS:

Please add new claims 48-53.

This listing of claims will replace all prior versions, and listings of the claims in the application.

- 1. (Previously presented) A method of detecting the presence of a disseminated epithelial cell marker in a sample comprising the steps of
- a) eliminating CD34+ cells from the sample using an anti-CD34 antibody based affinity process; and
- b) detecting the presence of mRNA that encodes the marker; wherein the marker is a differentiation specific antigen;

wherein said detection of said mRNA indicates the presence of a disseminated epithelial cell marker.

2-3. (Canceled)

- 4. (Previously presented) A method of detecting the presence of a disseminated epithelial cell marker in a sample comprising the steps of
- a) eliminating CD34+ cells from the sample using an anti-CD34 antibody based affinity process; and
 - b) detecting the presence of mRNA that encodes the marker; wherein the marker is a differentiation specific antigen;

wherein the disseminated epithelial cell marker is selected from the group consisting of guanylyl cyclase C, Cdx-1, Cdx-1, Cdx-2, sucrase isomaltase, lactase, carbonic anhydrase, prostate specific antigen, prostate specific membrane antigen,

cytokeratin 18, cytokeratin 19, cytokeratin 20, ErbB2, Erb-B3, epithelial mucin-1, epithelial mucin-18, gastrointestinal tumor associated antigen 733.2, desmoplakin I, epithelial glycoprotein 40, tyrosinase, thyroglobulin, tyrosine hydroxylase, and neuron-specific glycoprotein

wherein said detection of said mRNA indicates the presence of a disseminated epithelial cell marker.

- 5. (Canceled)
- 6. (Previously Presented) The method of claim 1, wherein the CD34+ cells are removed by column chromatography.
- 7. (Original) The method of claim 1, wherein the sample is tissue or bodily fluid.
- 8. (Original) The method of claim 1, wherein the sample is selected from the group consisting of blood, lymph tissue, and bone marrow.
- 9. (Original) The method of claim 1, wherein the mRNA is detected a polymerase chain reaction (PCR)-based method.
- 10. (Original) The method of claim 1, wherein the mRNA is detected by reverse transcriptase (RT)-PCR.
- 11. (Original) The method of claim 1, wherein the mRNA is detected by nested RT-PCR.
- 12. (Canceled)

- 13. (Previously Presented) The method of claim 1, wherein the marker is selected from the group consisting of guanylyl cyclase-C (GC-C), prostate-specific antigen (PSA), prostate-specific membrane antigen (PSM), cytokeratin-19 (CK-19), cytokeratin-20 (CK-20), mucin 1 (MUC-1), and gastrointestinal-associated antigen (GA733.2).
- 14. (Original) The method of claim 1, wherein the marker is GC-C.
- 15. (Previously Presented) The method of claim 1, wherein the disseminated epithelial cell marker is a cell marker for a metastatic colon cancer cell.

16-36. (Canceled)

- 37. (Previously Presented) The method of claim 1 wherein the sample is mononuclear cells isolated from blood.
- 38. (Previously Presented) The method of claim 37, wherein the disseminated epithelial cell marker is a tissue-specific marker.
- 39. (Previously Presented) The method of claim 38, wherein the tissue is selected from the group consisting of colon, lung, prostate, testis, breast, liver, and skin.
- 40. (Previously Presented) The method of claim 37, wherein the disseminated epithelial cell marker is selected from the group consisting of guanylyl cyclase C, Cdx-1, Cdx-1, Cdx-2, sucrase isomaltase, lactase, carbonic anhydrase, prostate specific antigen, prostate specific membrane antigen, cytokeratin 18, cytokeratin 19, cytokeratin 20, ErbB2, Erb-B3, epithelial mucin-1, epithelial mucin-18, gastrointestinal tumor associated

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antigen 733.2, desmoplakin I, epithelial glycoprotein 40, tyrosinase, thyroglobulin, tyrosine hydroxylase, and neuron-specific glycoprotein.

- 41. (Previously Presented) The method of claim 37, wherein the CD34+ cells are removed by column chromatography.
- 42. (Previously Presented) The method of claim 37, wherein the mRNA is detected a polymerase chain reaction (PCR)-based method.
- 43. (Previously Presented) The method of claim 37, wherein the mRNA is detected by reverse transcriptase (RT)-PCR.
- 44. (Previously Presented) The method of claim 37, wherein the mRNA is detected by nested RT-PCR.
- 45. (Previously Presented) The method of claim 37, wherein the marker is selected from the group consisting of guanylyl cyclase-C (GC-C), prostate-specific antigen (PSA), prostate-specific membrane antigen (PSM), cytokeratin-19 (CK-19), cytokeratin-20 (CK-20), mucin 1 (MUC-1), and gastrointestinal-associated antigen (GA733.2).
- 46. (Previously Presented) The method of claim 37, wherein the marker is GC-C.
- 47. (Previously Presented) The method of claim 37, wherein the disseminated cell marker is a cell marker for a metastatic colon cancer cell.
- 48. (New) The method of claim 4, wherein the CD34+ cells are removed by column chromatography.

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- 49. (New) The method of claim 4, wherein the sample is tissue or bodily fluid.
- 50. (New) The method of claim 4, wherein the sample is selected from the group consisting of blood, lymph tissue, and bone marrow.
- 51. (New) The method of claim 4, wherein the mRNA is detected a polymerase chain reaction (PCR)-based method.
- 52. (New) The method of claim 4, wherein the mRNA is detected by reverse transcriptase (RT)-PCR.
- 53. (New) The method of claim 4, wherein the mRNA is detected by nested RT-PCR.